



Precalculus: Trigonometric Functions

Name _____

Date _____

Find the trigonometric value of the special angles given in degrees

(1) $\sin 45^\circ$

(2) $\sin 120^\circ$

(3) $\cos 150^\circ$

(4) $\sin 210^\circ$

(5) $\csc 90^\circ$

(6) $\sec 45^\circ$

(7) $\csc 210^\circ$

(8) $\sin 240^\circ$

(9) $\sin 45^\circ$

(10) $\csc 120^\circ$

(11) $\sin 270^\circ$

(12) $\cos 180^\circ$



Answers

Find the trigonometric value of the special angles given in degrees

(1) $\sin 45^\circ$

= \frac{\sqrt{2}}{2}

(2) $\sin 120^\circ$

$$= \frac{\sqrt{3}}{2}$$

(3) $\cos 150^\circ$

$$= -\frac{\sqrt{3}}{2}$$

(4) $\sin 210^\circ$

$$= -\frac{1}{2}$$

(5) $\csc 90^\circ$

$$= 1$$

(6) $\sec 45^\circ$

$$= \sqrt{2}$$

(7) $\csc 210^\circ$

$$= -2$$

(8) $\sin 240^\circ$

$$= -\frac{\sqrt{3}}{2}$$

(9) $\sin 45^\circ$

$$= \frac{\sqrt{2}}{2}$$

(10) $\csc 120^\circ$

$$= \frac{2\sqrt{3}}{3}$$

(11) $\sin 270^\circ$

$$= -1$$

(12) $\cos 180^\circ$

$$= -1$$